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Title : TRANSONIC BUFFET TESTING OF THE  
PSLV MODELS - II: MODIFIED  
DESIGN & ANALYSIS

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Author(s) : A.JOSHI  
A.R.UPADHYA

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Abstract :

This report presents the modified design and analysis of the PSLV aeroelastic model. The changes in the model geometric scale and some design parameters, result in changes in the model stiffness and mass scale ratios. Based on these modified values a new design is worked out which meets the design criterion. The support system for the model is designed such that it has minimum interference with basic model behaviour. The heat shield portion of the model is stiffened artificially to improve handling and local buckling properties.